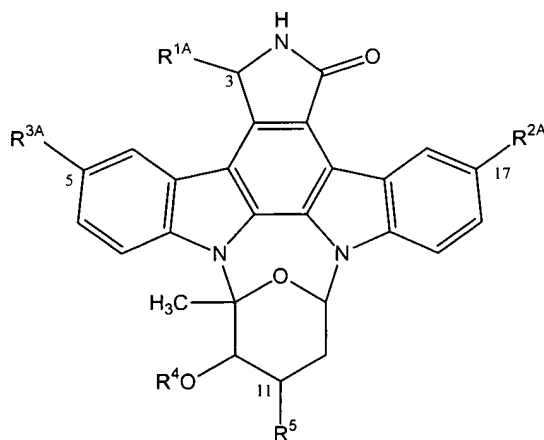


a.) Amendments to the Claims

1. (Cancelled)

2. (Currently Amended) A ~~staurosporin derivative or a pharmaceutically acceptable salt thereof, which is represented by the general compound of~~ formula (IA):



(IA)

wherein

R<sup>1A</sup> represents hydroxy or lower alkoxy;

R<sup>2A</sup> represents hydrogen, hydroxy, halogen, formyl, nitro, amino, COR<sup>6A1</sup> (wherein R<sup>6A1</sup> represents substituted or unsubstituted lower alkyl, hydroxy, or substituted or unsubstituted lower alkoxy), OR<sup>14A1</sup> (wherein R<sup>14A1</sup> represents substituted or unsubstituted lower alkyl), ~~lower alkyl~~, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkadienyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, COR<sup>6A3</sup> (wherein R<sup>6A3</sup> has the same meaning as defined for R<sup>6A2</sup> ~~below~~), NR<sup>11A2</sup>R<sup>12A2</sup> (wherein R<sup>11A2</sup> and R<sup>12A2</sup> have the same meaning as defined for R<sup>11A1</sup> and R<sup>12A1</sup> ~~below~~, respectively), or OR<sup>14A3</sup> (wherein R<sup>14A3</sup> has the same meaning as defined for R<sup>14A2</sup> ~~below~~);

when  $R^{2A}$  represents hydrogen, hydroxymethyl, hydroxy, halogen, formyl, nitro, amino,  $COR^{6A1}$  (wherein  $R^{6A1}$  represents substituted or unsubstituted lower alkyl, hydroxy, or substituted or unsubstituted lower alkoxy), or  $OR^{14A1}$  (wherein  $R^{14A1}$  represents substituted or unsubstituted lower alkyl),

then  $R^{3A}$  represents ~~lower alkyl~~, substituted or unsubstituted lower alkyl (other than ~~substituted lower alkyl~~ is not hydroxymethyl), substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkadienyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  $COR^{6A2}$  {< wherein  $R^{6A2}$  represents substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  $NR^{7A1}R^{8A1}$  (wherein  $R^{7A1}$  and  $R^{8A1}$  ~~have the same meanings as defined for  $R^7$  and  $R^8$  above, respectively,~~ independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a substituted or unsubstituted heterocyclic group that may contain an oxygen atom, a sulfur atom, or another nitrogen atom),  $OR^{9A1}$  (wherein  $R^{9A1}$  represents substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, or substituted or unsubstituted aryl), or  $SR^{10A1}$  (wherein  $R^{10A1}$  ~~has the same meaning as defined for  $R^{10}$  above~~)>> represents substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl) },  $NR^{11A1}R^{12A1}$  {~~(wherein  $R^{11A1}$  and  $R^{12A1}$  has the same meaning as defined for  $R^{11}$  and  $R^{12}$  above respectively,~~ independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms,  $COR^{13A}$  [wherein  $R^{13A}$  represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, lower alkoxy carbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  $OR^{9A}$  (wherein  $R^{9A}$  represents hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted

lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, or substituted or unsubstituted aryl),  
NR<sup>7A</sup>R<sup>8A</sup> (wherein R<sup>7A</sup> and R<sup>8A</sup> have the same meaning as defined for R<sup>7A1</sup> and R<sup>8A1</sup>,  
respectively)], CSR<sup>13A</sup>, SO<sub>2</sub>R<sup>13B</sup> (wherein R<sup>13B</sup> has the same meaning as defined for R<sup>13A</sup>),  
or a group derived from an amino acid (wherein a hydroxyl group in a carboxyl group is  
excluded from the amino acid and a functional group in the amino acid may be protected  
with a protective group), with the proviso that R<sup>11A1</sup> and R<sup>12A1</sup> are not simultaneously  
hydrogen)}<sub>2</sub> or OR<sup>14A2</sup> {wherein R<sup>14A2</sup> represents substituted or unsubstituted lower alkenyl,  
cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted lower alkanoyl,  
substituted or unsubstituted aroyl, or CONR<sup>7B1</sup>R<sup>8B1</sup> (wherein R<sup>7B1</sup> and R<sup>8B1</sup> have the same  
meanings as defined for ~~R<sup>7</sup> and R<sup>8</sup> above~~ R<sup>7A1</sup> and R<sup>8A1</sup>, respectively))};

when R<sup>2A</sup> represents lower alkyl, substituted lower alkyl (~~the~~  
~~substituted lower alkyl is not~~ other than hydroxymethyl), substituted or unsubstituted lower  
alkenyl, substituted or unsubstituted lower alkadienyl, substituted or unsubstituted lower  
alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  
COR<sup>6A3</sup> (wherein R<sup>6A3</sup> has the same meaning as defined for R<sup>6A2</sup> ~~above~~), NR<sup>11A2</sup>R<sup>12A2</sup>  
(wherein R<sup>11A2</sup> and R<sup>12A2</sup> have the same meanings as defined for R<sup>11A1</sup> and R<sup>12A1</sup> ~~above~~,  
respectively), or OR<sup>14A3</sup> (wherein R<sup>14A3</sup> has the same meaning as defined for R<sup>14A2</sup> ~~above~~),

then R<sup>3A</sup> represents substituted or unsubstituted lower alkyl,  
substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkadienyl,  
substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted  
or unsubstituted heterocyclic group, halogen, nitro, formyl, COR<sup>6A4</sup> [wherein R<sup>6A4</sup>  
represents substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, a  
substituted or unsubstituted heterocyclic group, NR<sup>7A2</sup>R<sup>8A2</sup> {wherein R<sup>7A2</sup> and R<sup>8A2</sup> have the  
same meanings as defined for R<sup>7A1</sup> and R<sup>8A1</sup> ~~R<sup>7</sup> and R<sup>8</sup> above~~, respectively}, OR<sup>9A2</sup>  
(wherein R<sup>9A2</sup> has the same meaning as defined for ~~R<sup>9</sup> above~~ R<sup>9A</sup>), or SR<sup>10A2</sup> (wherein R<sup>10A2</sup>  
has the same meaning as defined for ~~R<sup>10</sup> above~~ R<sup>10A1</sup>)], NR<sup>11A3</sup>R<sup>12A3</sup> (wherein R<sup>11A3</sup> and

$R^{12A3}$  have the same meaning as defined for  $R^{11A1}$  and  $R^{12A1}$   ~~$R^{11}$  and  $R^{12}$  above,~~  
 respectively) , or  $OR^{14A4}$  (wherein  $R^{14A4}$  ~~has the same meaning as defined for  $R^{14}$  above~~  
represents hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted  
lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted lower  
alkanoyl, substituted or unsubstituted aroyl, or  $CONR^{7A1}R^{8A1}$ ;

~~$R^{14}$  has the same meaning as defined for  $R^{14}$  above; and~~

$R^4$  ~~and~~ represents hydrogen, or substituted or unsubstituted lower  
alkyl; and

$R^5$  ~~have the same meaning as defined above respectively~~ represents  
 $NR^{11A}R^{12A}$ ;

wherein the substituents in the substituted lower alkyl and  
substituted lower alkoxy are independently selected from the group consisting of halogen,  
carboxy, lower alkoxycarbonyl, lower alkanoyl, substituted or unsubstituted aryl, a  
substituted or unsubstituted heterocyclic group,  $CONR^{15}R^{16}$  (wherein  $R^{15}$  and  $R^{16}$   
independently represent hydrogen, hydroxy, aralkyl, lower alkyl, lower alkenyl, substituted  
or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or are combined  
with their adjacent N to form a heterocyclic group),  $NR^{17}R^{18}$  {wherein  $R^{17}$  and  $R^{18}$   
independently represent hydrogen, lower alkyl, lower alkenyl, lower alkanoyl, aroyl,  
substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  
substituted lower alkyl [the substituted lower alkyl is replaced by at least one of hydroxy,  
lower alkoxy,  $O(CH_2CH_2O)_nR^{19}$  (wherein n is an integer of 1 to 15, and  $R^{19}$  is lower alkyl),  
oxo, carboxy, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or  
unsubstituted heterocyclic group,  $CONR^{15A}R^{16A}$  (wherein  $R^{15A}$  and  $R^{16A}$  have the same  
meaning as defined for  $R^{15}$  and  $R^{16}$ , respectively), amino, lower alkylamino, and di(lower  
alkyl)amino], cycloalkyl having 3 to 6 carbon atoms, or aralkyloxycarbonyl, are combined  
with their adjacent N to form a heterocyclic group which is substituted or unsubstituted},

$N^+R^{20}R^{21}R^{22}X^-$  [wherein  $R^{20}$  and  $R^{21}$  independently represent lower alkyl, or are combined with their adjacent N to form a heterocyclic group,  $R^{22}$  is lower alkyl, and X is an atom of chlorine, bromine or iodine],  $OR^{23}$  {wherein  $R^{23}$  represents hydrogen, lower alkyl, lower alkanoyl, lower alkyl [which is substituted with at least one of hydroxy, lower alkoxy,  $O(CH_2CH_2O)_{nA}R^{19A}$  (wherein  $nA$  is an integer of 1 to 15, and  $R^{19A}$  is lower alkyl), oxo, carboxy, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  $CONR^{15B}R^{16B}$  (wherein  $R^{15B}$  and  $R^{16B}$  have the same meaning as defined for  $R^{15}$  and  $R^{16}$ , respectively), amino, lower alkylamino, and di(lower alkyl)amino], substituted or unsubstituted aryl, and a substituted or unsubstituted heterocyclic group},  $SR^{23A}$  (wherein  $R^{23A}$  has the same meaning as defined for  $R^{23}$ ) and  $SO_2R^{23B}$  (wherein  $R^{23B}$  is lower alkyl);

the substituents for lower alkenyl, lower alkadienyl and lower alkynyl include oxo in addition to the substituents permitted for lower alkyl;

the substituents for lower alkanoyl are independently selected from the group consisting of halogen and  $NR^{17A}R^{18A}$  (wherein  $R^{17A}$  and  $R^{18A}$  have the same meaning as defined for  $R^{17}$  and  $R^{18}$ , respectively);

the substituents for aryl and aroyl are independently selected from the group consisting of halogen, lower alkyl (optionally substituted with halogen, oxo, carboxy, lower alkoxycarbonyl, amino, lower alkylamino, di (lower alkyl) amino, hydroxy or lower alkoxy), nitro, hydroxy, lower alkoxy, amino, lower alkylamino, di(lower alkyl)amino, lower alkanoyl and cyano; and

the substituents for the heterocyclic group and the heterocyclic group formed using the adjacent N include oxo in addition to the substituents permitted for aryl and aroyl; and

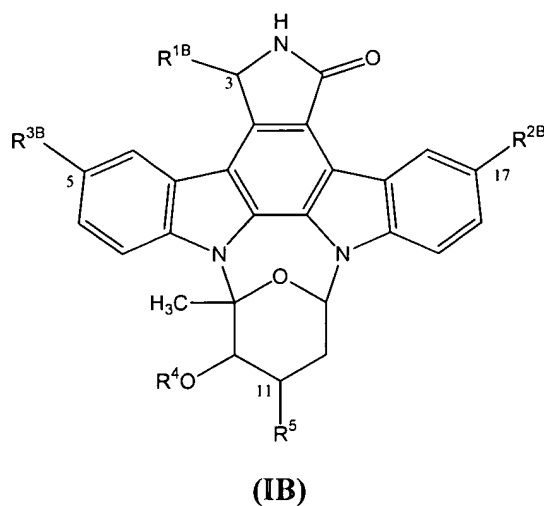
wherein the heterocyclic group is selected from the group consisting of pyrrolidinyl, imidazolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperidino,

morpholino, piperadiny, furyl, thienyl, pyrrolyl, imidazolyl, triazolyl, oxazolyl, thiazolyl, pyridyl, pyrimidinyl, indolyl, quinolyl, isoquinolyl and quinazolinyl; and

the heterocyclic group formed together using the adjacent N is selected from the group consisting of pyrrolidinyl, morpholino, thiomorpholino, N-methylpiperadiny, pyrazolidinyl, piperidino, piperadiny, homopiperadiny, indolyl and isoindolyl;

or a pharmaceutically acceptable salt thereof.

3. (Currently Amended) A ~~staurosporin derivative or a pharmaceutically acceptable salt thereof, which is represented by the general compound~~ of formula (IB):



wherein

~~R<sup>1B</sup>, R<sup>2B</sup> and R<sup>3B</sup> represent groups defined for the above R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup>, respectively, except when R<sup>1</sup> is hydrogen and R<sup>2</sup> and R<sup>3</sup> are the same or different and represent hydrogen, nitro, amino, carboxy, lower alkoxy carbonyl, hydroxy or hydroxymethyl, and when R<sup>1</sup> is hydrogen and R<sup>2</sup> and R<sup>3</sup> are the same or different and~~

~~represent hydrogen, halogen, formyl, lower alkanoyl or lower alkoxy, and R<sup>4</sup> and R<sup>5</sup> have the same meanings as defined above, respectively~~ represents hydroxy or lower alkoxy;

R<sup>2B</sup> and R<sup>3B</sup> independently represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkadienyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, nitro, formyl, COR<sup>6</sup> <wherein R<sup>6</sup> represents substituted lower alkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, NR<sup>7</sup>R<sup>8</sup> {wherein R<sup>7</sup> and R<sup>8</sup> independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a substituted or unsubstituted heterocyclic group (which may contain an oxygen atom, a sulfur atom, or another nitrogen atom)}, OR<sup>9</sup> (wherein R<sup>9</sup> represents hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, or substituted or unsubstituted aryl) , or SR<sup>10</sup> (wherein R<sup>10</sup> represents substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl) >, NR<sup>11</sup>R<sup>12</sup> <wherein R<sup>11</sup> and R<sup>12</sup> independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, COR<sup>13</sup> {wherein R<sup>13</sup> represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, OR<sup>9A</sup> (wherein R<sup>9A</sup> has the same meaning as defined for R<sup>9</sup>) , NR<sup>7A</sup>R<sup>8A</sup> (wherein R<sup>7A</sup> and R<sup>8A</sup> have the same meanings as defined for R<sup>7</sup> and R<sup>8</sup>, respectively)}, CSR<sup>13A</sup> (wherein R<sup>13A</sup> has the same meaning as defined for R<sup>13</sup>), SO<sub>2</sub>R<sup>13B</sup> (wherein R<sup>13B</sup> has the same meaning as defined for R<sup>13</sup>) , or a group derived from an amino acid (wherein a hydroxyl group in a carboxyl group is excluded from the amino acid and a functional group

in the amino acid may be protected with a protective group) >, or OR<sup>14</sup> {wherein R<sup>14</sup> represents substituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted lower alkanoyl, substituted or unsubstituted aroyl, or CONR<sup>7B</sup>R<sup>8B</sup> (wherein R<sup>7B</sup> and R<sup>8B</sup> have the same meaning as defined for R<sup>7</sup> and R<sup>8</sup>, respectively)};

R<sup>4</sup> represents hydrogen, or substituted or unsubstituted lower alkyl;

and

R<sup>5</sup> represents NR<sup>11A</sup>R<sup>12A</sup> (wherein R<sup>11A</sup> and R<sup>12A</sup> have the same meaning as defined for R<sup>11</sup> and R<sup>12</sup>, respectively);

wherein the substituents in the lower alkyl and lower alkoxy are independently selected from the group consisting of halogen, carboxy, lower alkoxy carbonyl, lower alkanoyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15</sup>R<sup>16</sup> [wherein R<sup>15</sup> and R<sup>16</sup> independently represent hydrogen, hydroxy, aralkyl, lower alkyl, lower alkenyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a heterocyclic group], NR<sup>17</sup>NR<sup>18</sup> (wherein R<sup>17</sup> and R<sup>18</sup> independently represent hydrogen, lower alkyl, lower alkenyl, lower alkanoyl, aroyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, substituted lower alkyl [which is substituted with at least one of hydroxy, lower alkoxy, O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>R<sup>19</sup> (wherein n is an integer of 1 to 15, and R<sup>19</sup> is lower alkyl), oxo, carboxy, lower alkoxy carbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15A</sup>R<sup>16A</sup> (wherein R<sup>15A</sup> and R<sup>16A</sup> have the same meaning as defined for R<sup>15</sup> and R<sup>16</sup>, respectively), amino, lower alkylamino, and di(lower alkyl)amino], cycloalkyl having 3 to 6 carbon atoms, or aralkyloxycarbonyl, or are combined with their adjacent N to form a substituted or unsubstituted heterocyclic group}, N<sup>+</sup>R<sup>20</sup>R<sup>21</sup>R<sup>22</sup>X<sup>-</sup> [wherein R<sup>20</sup> and R<sup>21</sup> independently represent lower alkyl, or are combined with their adjacent N to form a heterocyclic group,



R<sup>22</sup> is lower alkyl, and X is an atom of chlorine, bromine or iodine], OR<sup>23</sup> {wherein R<sup>23</sup> represents hydrogen, lower alkyl, lower alkanoyl, substituted lower alkyl [which is substituted with at least one of hydroxy, lower alkoxy, O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>nA</sub>R<sup>19A</sup> (wherein nA is an integer of 1 to 15, and R<sup>19A</sup> is lower alkyl), oxo, carboxy, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15B</sup>R<sup>16B</sup> (wherein R<sup>15B</sup> and R<sup>16B</sup> have the same meaning as defined for R<sup>15</sup> and R<sup>16</sup>, respectively), amino, lower alkylamino, and di(lower alkyl)amino), substituted or unsubstituted aryl, and a substituted or unsubstituted heterocyclic group, SR<sup>23A</sup> (wherein R<sup>23A</sup> has the same meaning as defined for R<sup>23</sup>) and SO<sub>2</sub>R<sup>23B</sup> (wherein R<sup>23B</sup> is lower alkyl);

the substituents in the lower alkenyl, lower alkadienyl and lower alkynyl include oxo in addition to the substituents in the lower alkyl;

the substituents in the lower alkanoyl are independently selected from the group consisting of halogen and NR<sup>17A</sup>R<sup>18A</sup> (wherein R<sup>17A</sup> and R<sup>18A</sup> have the same meaning as defined for R<sup>17</sup> and R<sup>18</sup>, respectively);

the substituents in the aryl and aroyl are independently selected from the group consisting of halogen, lower alkyl (optionally substituted with halogen, oxo, carboxy, lower alkoxycarbonyl, amino, lower alkylamino, di (lower alkyl) amino, hydroxy or lower alkoxy) , nitro, hydroxy, lower alkoxy, amino, lower alkylamino, di(lower alkyl)amino, lower alkanoyl and cyano; and

the substituents for the heterocyclic group and the heterocyclic group formed to using the adjacent N include oxo in addition to the substituents permitted for aryl and aroyl; and

wherein the heterocyclic group is selected from the group consisting of pyrrolidinyl, imidazolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperidino, morpholino, piperadinyl, furyl, thienyl, pyrrolyl, imidazolyl, triazolyl, oxazolyl, thiazolyl, pyridyl, pyrimidinyl, indolyl, quinolyl, isoquinolyl and quinazolinyl; and

the heterocyclic group formed using the adjacent N is selected from the group consisting of pyrrolidinyl, morpholino, thiomorpholino, N-methylpiperadinyl, pyrazolidinyl, piperidino, piperadinyl, homopiperadinyl, indolyl and isoindolyl;  
or a pharmaceutically acceptable salt thereof.

4. (Currently Amended) The ~~staurosporin derivative or the pharmaceutically acceptable salt thereof~~ compound according to claim 2, wherein  $R^{2A}$  represents amino, halogen, formyl, or hydroxy, and  $R^{3A}$  represents substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, ~~lower alkyl~~, substituted or unsubstituted lower alkyl (~~the substituted lower alkyl is not other than~~ hydroxymethyl), or  $NHCOR^{13A1}$  [(wherein  $R^{13A1}$  ~~has the same meaning as defined for  $R^{13}$  above~~) represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group,  $OR^{9A}$  (wherein  $R^{9A}$  has the same meaning as defined for  $R^{9A2}$ , or  $NR^{7A}R^{8A}$  (wherein  $R^{7A}$  and  $R^{8A}$  have the same meanings as defined for  $R^{7A1}$  and  $R^{8A1}$ , respectively))]; or

$R^{2A}$  represents substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, ~~lower alkyl~~, substituted or unsubstituted lower alkyl (~~the substituted lower alkyl is not other than~~ hydroxymethyl), or  $NHCOR^{13A2}$  (wherein  $R^{13A2}$  has the same meaning as defined for  ~~$R^{13}$  above~~  $R^{13A1}$ ), and  $R^{3A}$  represents substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, amino, substituted or unsubstituted lower alkyl, or  $NHCOR^{13A3}$  (wherein  $R^{13A3}$  has the same meaning as defined for  ~~$R^{13}$  above~~  $R^{13A1}$ ),

or a pharmaceutically acceptable salt thereof.

5. (Currently Amended) The compound ~~staurosporin derivative or the pharmaceutically acceptable salt thereof~~ according to claim 3, wherein  $R^{2B}$  and  $R^{3B}$  ~~are the same or different and~~ independently represent substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, amino, halogen, formyl, hydroxy, substituted or unsubstituted lower alkyl, or  $NHCOR^{13}$  (~~wherein  $R^{13}$  has the same meaning as defined above~~).

6. (Currently Amended) The compound ~~staurosporin derivative or the pharmaceutically acceptable salt thereof~~ according to claim 2 or 4, wherein  $R^{1A}$  is hydroxy, or a pharmaceutically acceptable salt of the compound.

7. (Currently Amended) The compound ~~staurosporin derivative or the pharmaceutically acceptable salt thereof~~ according to claim 3 or 5, wherein  $R^{1B}$  is hydroxy or a pharmaceutically acceptable salt of the compound.

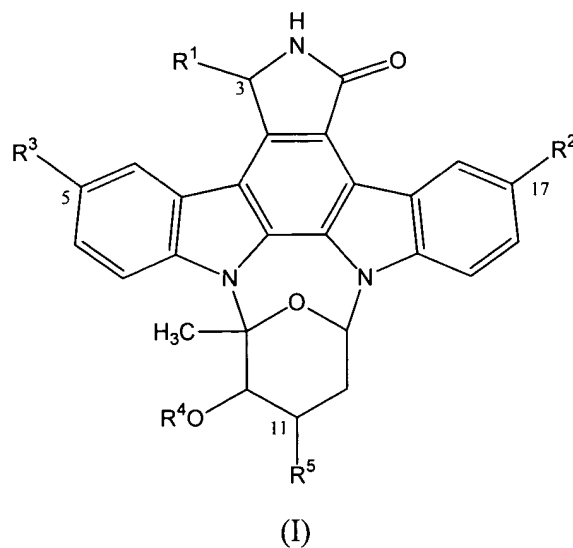
8. (Currently Amended) A pharmaceutical composition comprising at least one ~~staurosporin derivative or pharmaceutically acceptable salt thereof~~ compound according to any one of claims 2 to 5, and a pharmaceutically acceptable carrier.

Claims 9- 15 (Cancelled)

16. (Currently Amended) A pharmaceutical composition comprising at least one ~~staurosporin derivative or pharmaceutically acceptable salt thereof~~ according to any one of claims 2 to 5, and a pharmaceutically acceptable carrier.

17. (Currently Amended) A method for treating a ~~malignant~~ solid

tumor, comprising the step of administering, to a patient in need thereof, a therapeutically effective amount of the staurosporin derivative or a pharmaceutically acceptable salt thereof according to claim 1, a compound of formula (I):



wherein

R¹ represents hydrogen, hydroxy, or lower alkoxy;

R² represents hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkadienyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, halogen, nitro, formyl, COR⁶ <wherein R⁶ represents substituted or unsubstituted lower alkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, NR⁷R⁸ (wherein R⁷ and R⁸ independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted aryl, or a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a substituted or unsubstituted heterocyclic group (which may contain an oxygen atom, a sulfur atom, or another nitrogen atom) }, OR⁹ (wherein R⁹ represents hydrogen,

substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, or substituted or unsubstituted aryl) , or SR<sup>10</sup> (wherein R<sup>10</sup> represents substituted or unsubstituted lower alkyl, or substituted or unsubstituted aryl) >, NR<sup>11</sup>R<sup>12</sup> <wherein R<sup>11</sup> and R<sup>12</sup> independently represent hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, COR<sup>13</sup> (wherein R<sup>13</sup> represents substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, lower alkoxy carbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, OR<sup>9A</sup> (wherein R<sup>9A</sup> has the same meaning as defined for R<sup>9</sup>) , NR<sup>7A</sup>R<sup>8A</sup> (wherein R<sup>7A</sup> and R<sup>8A</sup> have the same meanings as defined for R<sup>7</sup> and R<sup>8</sup>, respectively)}, CSR<sup>13A</sup> (wherein R<sup>13A</sup> has the same meaning as defined for R<sup>13</sup>), SO<sub>2</sub>R<sup>13B</sup> (wherein R<sup>13B</sup> has the same meaning as defined for R<sup>13</sup>), or a group derived from an amino acid (wherein a hydroxyl group in a carboxyl group is excluded from the amino acid and a functional group in the amino acid may be protected with a protective group) >, or OR<sup>14</sup> {wherein R<sup>14</sup> represents hydrogen, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl, cycloalkyl having 3 to 6 carbon atoms, substituted or unsubstituted lower alkanoyl, substituted or unsubstituted aroyl, or CONR<sup>7B</sup>R<sup>8B</sup> (wherein R<sup>7B</sup> and R<sup>8B</sup> have the same meaning as defined for R<sup>7</sup> and R<sup>8</sup>, respectively)};

R<sup>3</sup> has the same meaning as defined for R<sup>2</sup>, with the proviso that R<sup>2</sup> and R<sup>3</sup> are not simultaneously hydrogen;

R<sup>4</sup> represents hydrogen, or substituted or unsubstituted lower alkyl;  
and

R<sup>5</sup> represents NR<sup>11A</sup>R<sup>12A</sup> (wherein R<sup>11A</sup> and R<sup>12A</sup> have the same meaning as defined for R<sup>11</sup> and R<sup>12</sup>, respectively);

wherein the substituents in the lower alkyl and lower alkoxy are independently selected from the group consisting of halogen, carboxy, lower

alkoxycarbonyl, lower alkanoyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15</sup>R<sup>16</sup> [wherein R<sup>15</sup> and R<sup>16</sup> independently represent hydrogen, hydroxy, aralkyl, lower alkyl, lower alkenyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a heterocyclic group], NR<sup>17</sup>R<sup>18</sup> {wherein R<sup>17</sup> and R<sup>18</sup> independently represent hydrogen, lower alkyl, lower alkenyl, lower alkanoyl, aroyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, or are combined with their adjacent N to form a heterocyclic group}, NR<sup>17</sup>R<sup>18</sup> {wherein R<sup>17</sup> and R<sup>18</sup> independently represent hydrogen, lower alkyl, lower alkenyl, lower alkenoyl, aroyl, substituted or unsubstituted heterocyclic group, substituted lower alkyl [which is substituted with at least one of hydroxy, lower alkoxy, O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>R<sup>19</sup> (wherein n is an integer of 1 to 15, and R<sup>19</sup> is lower alkyl), oxo, carboxy, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15A</sup>R<sup>16A</sup> (wherein R<sup>15A</sup> and R<sup>16A</sup> have the same meaning as defined for R<sup>15</sup> and R<sup>16</sup>, respectively), amino, lower alkylamino, and di(lower alkyl)amino], cycloalkyl having 3 to 6 carbon atoms, or aralkyloxycarbonyl, or are combined with their adjacent N to form a substituted or unsubstituted heterocyclic group}, N<sup>+</sup>R<sup>20</sup>R<sup>21</sup>R<sup>22</sup>X<sup>-</sup> [wherein R<sup>20</sup> and R<sup>21</sup> independently represent lower alkyl, or are combined with their adjacent N to form a heterocyclic group, R<sup>22</sup> is lower alkyl, and X is an atom of chlorine, bromine or iodine], OR<sup>23</sup> {wherein R<sup>23</sup> represents hydrogen, lower alkyl, lower alkanoyl, substituted lower alkyl [which is substituted with at least one of hydroxy, lower alkoxy, O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>nA</sub>R<sup>19A</sup> (wherein nA is an integer of 1 to 15, and R<sup>19A</sup> is lower alkyl), oxo, carboxy, lower alkoxycarbonyl, substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, CONR<sup>15B</sup>R<sup>16B</sup> (wherein R<sup>15B</sup> and R<sup>16B</sup> have the same meaning as defined for R<sup>15</sup> and R<sup>16</sup>, respectively), amino, lower alkylamino, and di(lower alkyl)amino], substituted or unsubstituted aryl, a substituted or unsubstituted heterocyclic group, SR<sup>23A</sup> (wherein R<sup>23A</sup> has the same meaning as defined for R<sup>23</sup>) and SO<sub>2</sub>R<sup>23B</sup> (wherein

R<sup>23B</sup> is lower alkyl);

the substituents in the lower alkenyl, lower alkadienyl and lower alkynyl include oxo in addition to the substituents in the substituted lower alkyl;

the substituents in the lower alkanoyl are independently selected from the group consisting of halogen and NR<sup>17A</sup>R<sup>18A</sup> (wherein R<sup>17A</sup> and R<sup>18A</sup> have the same meaning as defined for R<sup>17</sup> and R<sup>18</sup>, respectively);

the substituents in the aryl and aroyl are independently selected from the group consisting of halogen, lower alkyl (optionally substituted with halogen, oxo, carboxy, lower alkoxy, carbonyl, amino, lower alkylamino, di (lower alkyl) amino, hydroxy or lower alkoxy) , nitro, hydroxy, lower alkoxy, amino, lower alkylamino, di(lower alkyl)amino, lower alkanoyl and cyano; and

the substituents in the heterocyclic group and the heterocyclic group formed using the adjacent N include oxo in addition to the substituents permitted for aryl and aroyl; and

wherein the heterocyclic group is selected from the group consisting of pyrrolidinyl, imidazolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperidino, morpholino, piperadinyl, furyl, thienyl, pyrrolyl, imidazolyl, triazolyl, oxazolyl, thiazolyl, pyridyl, pyrimidinyl, indolyl, quinolyl, isoquinolyl and quinazolinyl; and

the heterocyclic group formed using the adjacent N is selected from the group consisting of pyrrolidinyl, morpholino, thiomorpholino, N-methylpiperadinyl, pyrazolidinyl, piperidino, piperadinyl, homopiperadinyl, indolyl and isoindolyl;

or a pharmaceutically acceptable salt thereof.

18. (Currently Amended) A method, further comprising administering to the patient an antitumor agent, wherein for enhancing the activity of an antitumor agent comprising the step of administering a therapeutically effective amount of the staurosporin

~~derivative or the compound or pharmaceutically acceptable salt thereof~~ according to ~~claim~~  
+ claim 17 enhances the activity of the antitumor agent.

Claims 19- 22 (Cancelled)

23. (Currently Amended) A method for treating a ~~malignant solid~~ tumor, comprising the step of administering, to a patient in need thereof, a therapeutically effective amount of the compound staurosporin derivative or the pharmaceutically acceptable salt ~~thereof~~ according to any one of claims 2 to 7 5.

24. (Currently Amended) A method, further comprising administering to the patient an antitumor agent, wherein ~~for enhancing the activity of an antitumor agent comprising the step of administering a therapeutically effective amount of the staurosporin derivative or the compound or pharmaceutically acceptable salt thereof~~ according to any one of claims 2 to 7 5 enhances the activity of the antitumor agent.

Claims 25- 28 (Cancelled)